



**UNIVERSITY of  
DEBRECEN**

Graduate Program Description  
for International Students



# Why choose the University of Debrecen?

The University of Debrecen in Hungary is one of Central Europe's top educational and research institutions. It offers a wide range of internationally recognized academic courses in Medical, Engineering, Business, IT, and Agricultural programs among many others to its 29,000 students. Debrecen is a charming and fast-developing school town in the heart of Europe.

## We are highly ranked by the most prestigious higher education rankings:

- 40 in QS EECA ranking 2022
- 191 in THE Emerging Economies University Rankings 2022
- 87 in THE University Impact Rankings Good Health and Wellbeing 2021
- 351-400 in QS WUR by Subject "Medicine" 2021
- 201-250 in QS WUR by Subject "Agriculture&Forestry" 2021
- 101-200 in THE University Impact Rankings Quality Education 2021
- 591-600 in QS World University Rankings 2022

## University facts:

 29,000+ students	 7,000+ international students from over 117 countries
 14 Faculties on 8 campuses	 1,524 academic staff
 18:8 student/academic staff ratio	 189 international academic staff
 100+ lecture halls	 363 university buildings
 500+ research labs	 530+ practice and seminar rooms
 7 libraries	 135 laboratories and language labs
 15 gyms	 6,000,000+ library documents

## We offer:

- A wide range of academic fields: Medical and Health Sciences, Agriculture, Business, Engineering, Humanities, IT, Law, Music, Natural Sciences
- Sophisticated and student-focused classes
- Research projects: students are encouraged to join ongoing research projects.

## We offer you medical programs with worldwide accreditation:

- World Health Organization
- New York State Education Department
- Medical Board of California
- Medical Councils of Israel, Ireland, Iran and Norway

The latest information about our programs including the most up-to-date curricula can be found online at [www.edu.unideb.hu](http://www.edu.unideb.hu). For more information please contact us at [info@edu.unideb.hu](mailto:info@edu.unideb.hu).

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# Graduate Programs



# Animal Husbandry Engineering, MSc



# Agricultural Environmental Management Engineering, MSc



<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Animal Husbandry Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The MSc in Animal Husbandry Engineering is designed to develop your undergraduate knowledge and improve it through application and research. The field of animal science is broad and the program reflects this diversity, with emphasis on physiology, nutrition, and genetics, gene conservation, functional food and molecular biology, which are the key research areas of the institute.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in biological or animal science
<b>Lecture, Seminar: Practice:</b>	62% 38%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Applied Genetics, Physiology of Production Traits, Informatics and Computing, Applied Biochemistry, Microbiology, World Animal Husbandry, Aquatic Ecology and Hydrobiology, Livestock Judging, Fodder and Food Chemistry, Reproductive Biology, Biometry, Cytogenetics, Molecular Genetics in Animal Breeding, Animal Nutrition, Feed Preparation, Processing, Mixing and Trading, Ecological Management of Animals, Inland Fisheries Management, Recording and Breeding Programs
2	Management, Molecular Genetics in Animal Breeding, Application of Biotechnology in Animal Breeding, Feed Analysis, Food Safety, Quality and Auditing, Scientific Writing, Meat and Milk Processing, Nutrition Therapy, Organisation of Breeding, Sectoral Economics and Planning, Management of Local Genetic Resources, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week summer field practice.
<b>Career prospects:</b>	Postgraduates may progress to a PhD or find employment in animal science research, lecturing, consultancy or other science-based sectors of the animal science industry.

<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Agricultural Environmental Management Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The MSc in Agricultural Environmental Management Engineering is designed to develop your undergraduate knowledge and improve it through application and research. The field of Environmental Management is broad and the program reflects this diversity, with emphasis on natural resource management, environmental impact assessment, environmental technologies and environmental informatics.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in environmental science
<b>Lecture, Seminar: Practice:</b>	52% 48%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Natural sciences: Soil science - Soil ecology, Water Management: Agrohydrology, Environmental Informatics – Environmental Monitoring, Sustainable Agricultural Systems and Technologies: Crop Production, Sectoral Administration and Environmental Law, Environmental Measurement Techniques, Agro-Environmental Management, Natural sciences - Nature Conservation Ecology, Environmental Impact Assessment and Environmental Modeling, Food Chain Safety, Water Management - excess water management and irrigation techniques, Sustainable Agricultural Systems and Technologies: Animal Breeding, Environmental Technologies: Soil Remediation, Soil Protection, Biotechnology in Agriculture
2	Agricultural Engineering, Precision Agricultural Systems and Technologies, Research Methodology, Scientific Communication, Agricultural Forestry, Environmental technologies: Water Quality Protection, Waste Water Treatment, Waste Management in Agriculture and Food Industry, Farm Business Management and Project Management, Agro-Environmental Management - Ecotoxicology, Environmental Risk Assessment, Environmental Planning, Land Consolidation, Landscape Conservation, Agricultural and Environmental Policy, Management Systems (EMS, QMS, FSMS), Agricultural and Environmental Economics, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week summer field practice.
<b>Career prospects:</b>	Postgraduates may progress to a PhD or find employment in environmental management, lecturing, consultancy or other sectors where environmental management is involved.

# Agricultural Water Management Engineering, MSc



<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Agricultural Water Management Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the graduate program is to train agricultural water management engineers who, equipped with knowledge and skills acquired over the course of the program, are able to use creative engineering in the field of sustainable integrated water management within the field of agricultural water management. With their qualifications, graduates are able to cooperate with other experts in solving domestic and international problems related to their field of expertise.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in environmental science, agricultural engineering, horticulture engineering, crop production engineering, agrobusiness and rural development engineering, rural development engineering.
<b>Lecture, Seminar: Practice:</b>	48% 52%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Applied Hydrology and Hydraulics, Climatology, Hydrogeography, Hidrobiology, Water Chemistry, Soil Physics, Melioration and Land Consolidation, Pond Culture and Fisheries Management, Irrigated Crop Production, Floodplain Management, Irrigation for Horticultural Production, Wastewater and Slurry Management, Management and Utilization of Aquatic Habitats, Water Resource Protection – Environmental Damage Prevention, Remote Sensing and GIS in Hydrology, Farm Irrigation Machines, Irrigation Technology
2	Precision Agriculture, Drought Management, Integrated Water Management and Monitoring, Water Economics, Excess Water Management, Agricultural Water Supply Systems, Agricultural Water Management Planning and Implementation, Water Policy, Water Law and Sectoral Public Administration, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week summer field practice.
<b>Career prospects:</b>	Postgraduates are qualified for the design and development of engineering, research and leadership positions. They may continue their studies in doctoral training.

# Food Safety and Quality Engineering, MSc



<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Food Safety and Quality Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The MSc in Food Safety and Quality Engineering is designed to develop your undergraduate knowledge and improve it through application and research. The field of food science is broad and the program reflects this diversity, with emphasis on raw material qualifying, processing technology, quality analysis and quality assurance.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in food engineering, chemical engineering, biological science, agronomy.
<b>Lecture, Seminar: Practice:</b>	49% 51%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Theory of Measurement and Experimental Designs, Expectations of Foodstuffs, Consumer Protection, Separation Technique, Quality and Safety in Food Technologies (HACCP in practice), Food Marketing, Basics of Food Microbiology, Management and Communication, Spectroscopic Methods, Nutritional Sciences, Essential Molecular Cell Biology, Microbiological Aspects of Food Quality and Safety, Quality Control, Quality Management
2	Regulation of Food Production, Quality and Safety, Food Toxicology, Hyphenated Analytical Methods, Quality Management Systems and Audit in the Food Chain, Traceability in the Food Chain, Food Industry Management and Economics, Radiology in the Food Industry, Analytical and Microbiological Rapid Methods, Food Quality and Safety Risk Analysis, Rheology in Food Testing, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Postgraduates may progress to PhD studies or find employment in food and dietetics science research, lecturing, consultancy or other science-based sectors of the food science industry.

# Plant Protection, MSc



# Rural Development Engineering, MSc



<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Protection Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the Plant Protection Program is to train specialists of plant protection who are able to fulfill directional, managing, organizing, consulting, regulating and marketing tasks, based on their wide theoretical and practical knowledge to prevent losses during crop production. Such experts are able to identify the organisms, which are threatening healthy plants (incl. pathogens, pests and weeds) and they get acquainted with their biology and reproduction, and also with the effects and mechanisms of pesticides concerning even the environment and humane hygiene, moreover apply integrated viewpoints of alternatives of chemical protection. They can prevent harms and damages caused by different pests or environmental effects, and they are applying procedures of ecological and integrated plant protection in order to reduce the pesticide-load of the environment. In their work they are always attentive to the safety of food, processors, consumers and the environment. Having a degree in higher education they are permitted to use restricted chemicals which might be special risks for the environment. The further aim is to prepare the interested and inspired students for research work and PhD training in the fields of plant protection.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in relevant field of science or related area. Acceptable and preferable courses: natural sciences, technical and social sciences, horticultural production, plant protection, crop production, agricultural economics.
<b>Lecture, Seminar: Practice:</b>	51 hours/45 hours/training (38%) 160 hours (62%)
<i>Main subjects typically include (this list is indicative and may change):</i>	
Year	Main subjects
1	Chemistry of plant protection, Environmental protection and ecotoxicology, Crop production, General plant pathology and diagnostics, Plant protection zoology and ecology, Herbology, Molecular biology, Plant protective mycology, Plant protection entomology I., Plant protective application technology, Horticulture, Alternative management and rural development, Informatics and agricultural extension
2	Applied plant biology, biotechnology and resistance, Forecasting and integrated pest management, Plant protection law and administration, food safety, Outlines of plant pathology I., Weed biology, Pest management in eco-farms, Human hygiene and first aids, Weed management, Integrated pest management, IPM

<b>Internship, practice:</b>	160 hours of summer practice at a plant doctor practitioner
<b>Career prospects:</b>	Graduates with wide-ranging professional knowledge can choose from a wide range of career possibilities. They may be employed at agricultural integrators or at production companies as a plant protection expert/consultant. It is also common that they conduct research in a specific field of plant protection. In addition, it is possible to fill professionally related positions in specialized education and public administration, as well as in other organizations (eg banks, insurance companies).

<b>Academic discipline:</b>	Agricultural Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Rural Development Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The objective of the program is to train professionals who understand sustainable development and the present problems of rural areas based on knowledge relating to agriculture, economic management, as well as regional and rural development, who can cooperate in the determination of possible directions of development, can define special development programs, can manage their realizations and who can carry out the monitoring of processes.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in rural development, agricultural economics, business, or management.
<b>Lecture, Seminar: Practice:</b>	46% 54%
<i>Main subjects typically include (this list is indicative and may change):</i>	
Year	Main subjects
1	Rural and Environmental Policy, Human Resource Management, Rural Economics, Research Methodology, Accounting for Managers, Economic Law, Rural Security Studies, Commerce and Logistics, Integrated Settlement Development, Economics of Agriculture Sectors, Integrated Regional Development, Project Management, Economics of Agricultural Markets, Agricultural Economics and Agricultural Policy, Rural Sociology
2	Business Consulting, Local Economic Development, Alternative Management, Analysis of Agricultural Programs, Regional Planning and Programming, Community Development, Food Chain Safety Knowledge, Production and Operation Management, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	The wide range of management and rural development skills enable graduates to pursue different careers and adapt their knowledge to different conditions in their home countries. Graduates may find employment at agricultural companies or in public administration.

# International Economy and Business, MSc



# Chemical Engineering, MSc



<b>Academic discipline:</b>	Economic Science
<b>Degree:</b>	Bachelor of Science, (BSc)
<b>Qualification:</b>	Economist in International Economy and Business
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the program is to prepare specialists in economics and business using basic skills acquired in the fields of international, micro- and macroeconomics, international politics, European integration, international law, regional studies, civilization/globalization and their chosen specializations that enable them to analyze, plan, make decisions and control the activities of business organizations and institutions in an international context.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in economics, business or management
<b>Lecture, Seminar: Practice:</b>	49% 51%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Advanced Microeconomics, Advanced Development Economics, Advanced International Marketing, Global Corporate Strategy and Multilevel Governance, Advanced Macroeconomics, Statistics and Econometrics, International Trade Theory
2	International Economic Policy, International Finance, The Law of International Economic Relations, The Economic History of the Word, International Political Economy, Advanced International Management, International Accounting and Information Systems, Research Methodology, Thesis

<b>Internship, practice:</b>	N/A
<b>Career prospects:</b>	Graduates can choose from a wide range of positions such as analyst or manager at multinational companies, financial institutions, international organizations, governmental and non-governmental institutions, or institutions of the European Union. They may become successful entrepreneurs with deep insights into global management and competition. They may continue their studies in PhD programs in business or economics.

<b>Academic discipline:</b>	Engineering Science
<b>Degree:</b>	Bachelor of Science, (BSc)
<b>Qualification:</b>	Chemical Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The training objective of the Chemical Engineering MSc is to improve the supply of engineering professionals, and to keep those with BSc degree from migrating. Our objective is to train professionals who possess the general knowledge, technical intelligence and the basics of natural, social and engineering sciences, which are essential for the practice of the chosen profession.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in chemical engineer or Bachelor's degree in biochemical engineer (catching up is not required); Bachelor's degree in materials and science engineering, timber industry engineering, light industrial engineering, mechanical engineering, environmental engineering, and chemistry (catching up is required)
<b>Lecture, Seminar: Practice:</b>	58% 42%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Advanced Microeconomics, Advanced quality management, Engineering communication, Intellectual property law, Engineering Informatics, Industrial instrumentation and automation for Chemical Industry, Industrial technologies, Energetics in Chemical Industry, Transport processes I., Differential equations, Engineering physics, Bioprocess Engineering I., Organic synthetic methods I., Organic chemistry practice, Biochemistry IV., Physical chemistry and practical applications, Separation techniques III., Separation techniques VI., Chemical aspects of drug design, Heterocycles, Pharmaceutical-industry project I., Instrumental and material analysis, Plastic-industry project I., Internship
2	Management, Safety and health prevention in chemical industry, Pilot Plant II., Transport processes II., Environmental management, Down stream processing, Pharmaceutical-industry project II., Carbohydrate based drug design, Environment-friendly and catalytic processes, Pharmaceutical and fine chemical technologies, High efficiency synthetic methods I., Plastics processing technologies, Plastic-industry project II., Materials science, Modern petrochemistry, MSc Thesis I-II.

<b>Internship, practice:</b>	Students should complete a 4-week practice at a company or research institute.
<b>Career prospects:</b>	<ul style="list-style-type: none"> <li>Graduates can choose from a wide range of positions in the chemicals industry, pharmaceutical chemistry, oil and gas industry.</li> <li>PhD in chemistry</li> </ul>

# Engineering Management, MSc



# Environmental Engineering, MSc



<b>Academic discipline:</b>	Engineering Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Engineering Manager
<b>Specializations:</b>	Construction Industry Specialization, Industrial Process Engineering Specialization, Material Handling and Logistics
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the program is to provide professionals who have obtained a technical management or engineering degree, with scientific, engineering, informatics, economics and organizational knowledge; with a good command of a foreign language; and with skills to be able to manage complex engineering-economics tasks, plan and implement technical and economic processes, and to further evaluate the results to implement their developing economic and organizational knowledge in the course of PhD training.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in any engineering field
<b>Lecture, Seminar: Practice:</b>	45% 55%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Quantitative Methods, Applied Mathematics in Manufacturing Design, Artificial Intelligence, Development of Organization and Human Resources, Advanced Corporate Finance, Introduction to Nanotechnology, Econometrics, Digital System Design, Advanced Quality Management
2	Negotiation and Conflict Management, International and Management Accounting, Project Leadership, Risk and Reliability, Operation Management, Leadership Competencies Development, Control of Integrated Information Systems, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in engineering fields from chemical to civil, electrical to mechanical. Because this degree combines management skills with engineering knowledge, you are uniquely suited to oversee teams of other engineers working on highly technical tasks and serve as the bridge between technical roles and management.

<b>Academic discipline:</b>	Engineering Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Environmental Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The objective of the program is to train environmental engineers with up-to-date scientific, ecological, engineering, economic, and management knowledge to be capable of identifying and assessing existing and potential environmental threats, preventing or reducing environmental damage, as well as preparing and controlling damage control projects. They are able to carry out complex engineering and scientific design and analytical procedures on the basis of their up-to-date knowledge of informatics with the help of design, modeling, and simulation software. They are prepared to set out and apply adequate technological solutions to prevent environmental pollution, to provide engineering design, and manage tasks in the field of waste processing and recycling. They are able to optimize environmental technologies and environmental impacts. They are prepared for further studies in a doctoral program.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in environmental engineering, or other chemical-related field.
<b>Lecture, Seminar: Practice:</b>	41% 59%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Applied Statistics, Environment Biology and Nature Protection, Geosciences, Environmental Law and Economics, Environmental and Quality Management, Environmental Modelling and Environmental Informatics, Environmental Operations, Safety and Environmental Risk, Mathematical Modeling and Optimization, Environmental Chemistry and Environmental Toxicity, Ecology for Engineers, Production Management and Life Cycle Analysis, Environmental Engineering Measurement Techniques, Monitoring, Environmental Health, Environmental Resource Management, Environmental State Assessment, Auditing
2	Environmental Summer Professional Practice, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in environmental, energy, and engineering consultancies, multinational companies (energy), local government, environmental bodies, or research positions.

# Mechanical Engineering, MSc



# Mechatronics Engineering, MSc



<b>Academic discipline:</b>	Engineering Science
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Mechanical Engineer
<b>Specializations:</b>	Production Engineering
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the degree program is to train mechanical engineers who are able to work out, model, design, operate, control, and maintain mechanical systems and processes; develop engineering technologies and processes, new materials, and manufacturing technologies and apply them in an energy-efficient and environmentally conscious way; complete leadership, control, and organizational tasks; complete tasks in engineering development, research, design and innovation; as well as participate in and control national and international engineering projects.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in mechanical engineering or related field
<b>Lecture, Seminar: Practice:</b>	46% 54%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Applied Statistics, Applied Dynamics, Investment and Financial Decisions, Organizational Techniques and Project Management, Engineering Systems and Modeling, Integrated Design Systems, Applied Mathematics, Applied Thermodynamics and Fluid Mechanics, Materials Science, Applied Quality and Environmental Management, Electrical Measurement and Signal Processing, Machine and Product Design, Industrial internship
2	Design of Manufacturing Devices, Design of Material Handling and Storage Systems, Production Automation, Diagnostics and Condition Monitoring, Simulation of Manufacturing Systems and Processes, Production Process Optimization, Maintenance and Repairing Technologies, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in the automotive industry, chemicals industry, construction industry, oil and gas industry, power generation industry, or rail industry.

<b>Academic discipline:</b>	Engineering Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Mechatronics Engineer
<b>Specializations:</b>	Building Mechatronics and Intelligent Buildings Specialization, Cyber-physical Systems Specialization
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the program is to train mechatronics engineers who are capable of integrating engineering with electronics, electrotechnics, and computer control in a synergistic way at a global standard. They are able to formulate concepts, to model, design, produce and subsequently maintain and control mechatronic machinery, processes, systems and intelligent machines. They are able to develop and apply new technologies, procedures, and materials; to provide managerial and organizational tasks; and to be involved in and manage engineering development, research, design, and innovation in domestic as well as international engineering projects in the field of mechatronics.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in mechatronics or related field
<b>Lecture, Seminar: Practice:</b>	42% 58%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Mathematics, Spatial Mechanisms and Dynamical Systems, Economical, Financial and Investment Decisions for engineers, Electronics, Control theory, Materials Science, Engineering Leadership and Organizational Methods, Digital and Servo Drives
2	Embedded Systems, Image Processing, Internship, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice by working at a company or firm over the course of the internship period (in summer).
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in the fields of robotics, nanotechnology, automation, aircraft engineering, transport, and computer-aided design.

# Urban Systems Engineering, MSc



# Postgraduate Diploma in Lean Engineer



<b>Academic discipline:</b>	Engineering Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Urban Systems Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The objective of the program is to train urban system engineers who can effectively contribute to urban planning, settlement architecture, principal architecture, and technical authorities; furthermore, these engineers will be able to assist administrations and communal maintenance services and the protection of the urban built environment of a local government. Urban systems engineers are prepared at a high level to implement the conception and programs of urban development and to form their plans. They are able to harmonize the development of settlements, groups of settlements, and areas to make spatial plans, to manage and control such activities, and to conduct scientific research in the professional field.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0/oral examination)
<b>Entry requirements:</b>	Credit points can be fully recognized from: civil engineering, gardening and landscape engineering bachelor's degrees. Bachelor's degrees in the following fields can be taken into account: computer science engineering from the field of informatics, environmental engineering, earth science and engineering, transportation engineering from the field of engineering, geography, earth science from the field of natural sciences, land surveying and land management engineering, agricultural and rural development engineering, rural development engineering, agricultural engineering from the field of agriculture.
<b>Lecture, Seminar: Practice:</b>	48% 52%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Geographic Information Systems (GIS), Urban Sociology, Public Works: Urbanization, Urban Transportation Planning, Urban Environmental Protection, Regional Planning, Urban Architecture, Real Estate Development and Management, Greenfield Management, Ecological Planning, Urban Planning, City Operations, Municipal Administration
2	Bridges and Structures, Public Works, Strategic Environmental Assessment, Urban Waste Management, Urban Planning, Built Heritage Protection, Thesis

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions at public, private, and non-profit organizations, planning and architectural advisory firms, or research institutes.

<b>Academic discipline:</b>	Engineering Science
<b>Degree:</b>	Postgraduate Diploma
<b>Qualification:</b>	Lean Engineer
<b>Duration:</b>	2 semesters
<b>Credits obtained:</b>	The postgraduate diploma requires the completion of 60 credits..
<b>Aim of the program:</b>	The fundamental objective of the training is to provide the participating professionals with a general professional knowledge of the subject, based on which they can learn about the "Lean Philosophy". By applying the philosophy, losses can be made visible and thus eliminated, and the production process can be adapted to customer needs. The Lean methodology combines recognized practices of international quality development. By applying it, the processes of the organization are improved in the areas of production, administration and strategy development. Lean organizations deliver their products faster and more accurately and are able to keep their costs lower than their competitors, thus their market position is constantly improving. Lean is a system consisting of technical and management fields. Having acquired these skills, graduates will be able to build and operate lean systems.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0/oral examination)
<b>Entry requirements:</b>	at least bachelor's degree in: Mechanical Engineering, Computer Science Engineering, Mechatronics Engineering, Architecture, Civil Engineering, Electrical Engineering, Chemical Engineering, Bioengineering, Environmental Engineering, or Management Engineering
<b>Lecture, Seminar: Practice:</b>	53% 47%
<i>Main subjects typically include (this list is indicative and may change):</i>	
Semester	Main subjects
1	Management Knowledge, Quality Management, Quality Improvement Tools, Lean Management I, Lean Methods and Tools I, Production and Operations Management, Measurement and Qualification I
2	Organizational Theory and Behavior, Lean Management II, Lean Methods and Tools II, Process Management, Performance Measurement and Business Valuation, Measurement and Qualification II, Maintenance Management

<b>Internship, practice:</b>	The program does not include an internship.
<b>Career prospects:</b>	Mid-to upper-level positions where the tasks include implementing lean concepts like process mapping, mistake proofing (DMAIC projects), value-stream mapping, waste reduction, optimization: <ul style="list-style-type: none"> <li>• Supply Chain Manager / Engineer</li> <li>• Operations Manager / Engineer</li> <li>• Plant Manager</li> <li>• Quality Improvement Engineer</li> <li>• Business Process Manager</li> <li>• Process Manager</li> <li>• Project Manager</li> <li>• Lean Manufacturing Manager</li> </ul> The list is not exhaustive as many career paths are available because lean principles can be effective in improving business processes in many different fields (e.g. education, public administration, sales, services, finances, etc.).

# Postgraduate Diploma in Lean Manager



# Postgraduate Diploma in Strategic Engineering and Sustainability Leadership



<b>Academic discipline:</b>	Engineering Sciences
<b>Degree:</b>	Postgraduate Diploma
<b>Qualification:</b>	Lean Manager
<b>Duration:</b>	2 semesters
<b>Credits obtained:</b>	The postgraduate diploma requires the completion of 60 credits.
<b>Aim of the program:</b>	The fundamental goal of the course is to train lean professionals who are able to integrate the principles and methods of lean management into the company's strategy and operational practices. Students will acquire the professional skills needed for effective and efficient lean transformation, which will help them to continuously improve the company's operational and business performance increasing competitiveness in a rapidly changing business environment. Graduates will be able to design and operate lean production and service systems, develop lean corporate structures, apply lean methods and techniques, and integrate continuous improvement into corporate culture.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0/oral examination)
<b>Entry requirements:</b>	at least bachelor's degree in a non-engineering field (e.g. Technical Management, Economics, Science or Informatics).
<b>Lecture, Seminar: Practice:</b>	53% 47%

*Main subjects typically include (this list is indicative and may change):*

Semester	Main subjects
1	Management Knowledge, Quality Management, Quality Improvement Tools, Lean Management I, Lean Methods and Tools I, Production and Operations Management, Measurement and Qualification I
2	Organizational Theory and Behavior, Lean Management II, Lean Methods and Tools II, Process Management, Performance Measurement and Business Valuation, Measurement and Qualification II, Maintenance Management

| **Internship, practice:** | The program does not include an internship. |
| **Career prospects:** | Mid-to upper-level positions where the tasks include implementing lean concepts like process mapping, mistake proofing (DFAIC projects), value-stream mapping, waste reduction, optimization:   - Supply Chain Manager - Operations Manager / Specialist - Plant Manager - Quality Improvement Specialist - Business Process Manager - Process Analyst - Project Manager - Lean Manufacturing Manager   The list is not exhaustive as many career paths are available because lean principles can be effective in improving business processes in many different fields (e.g. education, public administration, sales, services, finances, etc.). |

<b>Academic discipline:</b>	Engineering Science
<b>Degree:</b>	Postgraduate Diploma
<b>Qualification:</b>	Strategic Engineering and Sustainability Manager
<b>Duration:</b>	2 semesters
<b>Credits obtained:</b>	The postgraduate diploma requires the completion of 60 credits.
<b>Aim of the program:</b>	The fundamental aim of the training is to provide the participants with general professional knowledge of strategic management, to build on this knowledge in order to understand and apply a wide range of factors that influence organizational management, and to use the resources available to them in order to run the company effectively. With these skills, graduates will be able to build and operate integrated systems. Moreover, the training aims to prepare participants for leadership roles in an international working environment at a technical company operating in Hungary or abroad and to make them competitive in the international labour market.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0/oral examination)
<b>Entry requirements:</b>	at least a bachelor's degree with the following requirements: a) professional engineering qualification, or b) in the case of no professional engineering qualification: qualification in the fields of technical studies, Economics, Science, or Informatics; or qualification as an English teacher - in the case of other qualifications, 3 years of relevant leadership experience is required
<b>Lecture, Seminar: Practice:</b>	35% 65%

*Main subjects typically include (this list is indicative and may change):*

Semester	Main subjects
1	Personal Development for the Strategic Engineering Leader, Strategic Corporate Social Responsibility, Analysis of the strategy, plans and performance of technical organizations, Strategic Information Management, Strategic Planning of Financing Technical Projects, Strategic and Project Management, Financial Management of Technical Organizations
2	Strategic Performance Management, Data Analysis, Risk Management Strategies, Crisis and Change Management, Lean Process Improvement

| **Internship, practice:** | The program does not include an internship. |
| **Career prospects:** | Mid-to upper-level positions where the tasks include implementing strategic management like setting objectives, analyzing the competitive environment, evaluating and implementing strategies, analyzing the internal organization. Positions depending on the basic education could be:   - Financial Analyst - Business Analyst - Product Strategist - Project Analyst - Project Management Coordinator - Process Coordinator - Marketing Consultant - Business Development Coordinator - Strategic Initiatives Associate - chief operating officer (COO)   A multitude of career paths is available due to the fact that strategic management and sustainability principles can be effective in improving business processes in many different fields. In addition, the efficient use of resources is essential in private, public and non-profit organizations as well. |

# Complex Rehabilitation, MSc



# Public Health, MSc



<b>Academic discipline:</b>	Medical and Health Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Master of Science in Complex Rehabilitation
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the MSc in complex rehabilitation program is to train experts who will be able to effectively facilitate social inclusion of individuals and targeted communities / groups in health, social, educational and occupational rehabilitation after acquiring multi-disciplinary knowledge. In addition, they will be sufficiently prepared to assess, evaluate, represent and improve the outcomes of rehabilitation activities.
<b>Language requirements:</b>	English language proficiency (CEFR level B2, assessed at the compulsory entrance interview)
<b>Entry requirements:</b>	high school certificate; relevant BSc degree; entrance interview
<b>Lecture, Seminar: Practice:</b>	62% 38%
<i>Main subjects typically include (this list is indicative and may change):</i>	

Year	Main subjects
1	Basics in Rehabilitation, Biostatistics and Epidemiology, Health Promotion, Basic Ethics and Legal Issues in Rehabilitation, Public Health, Main Fields in Rehabilitation Medicine, Introduction to Behavioral Sciences, Public Health Genomics, Planning of Clinical Research, The Relation of Prevention and Rehabilitation to Health and Disability, Research Methods and Research Planning in Rehabilitation, Theory and Practice in Quality of Life, Evidence in Rehabilitation, Rehabilitation Research Project Planning, Management and Evaluation
2	Teamwork in Rehabilitation, Health Risk Assessment, Treatment and Communication in Rehabilitation, The Practice of Quality in Rehabilitation, Impact of Employment in Rehabilitation, Methods and Practice of Building Professional and Public Relations, Cognitive Evaluation, Health Psychology, Public Health Problems in Disadvantaged Populations, Pedagogical and Social Approaches to Rehabilitation, Impact of Spasticity in Rehabilitation Medicine, Public Health Nutrition, Basic Ergonomics, Supportive Relations and Optional Methods of Psychotherapy, Stroke Care with Special Emphasis on the Assessment and Treatment of Spasticity

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Experts in complex rehabilitation will be competent in all areas of health rehabilitation allowing for the coordination of services, patient management, activities of rehabilitation providers, supply development, rehabilitation effectiveness measurement, and research activities which contribute to high standards in practice. In other sectors of complex rehabilitation including employment, education, and social rehabilitation, trained experts can carry out the tasks of specific institutional management, project planning, implementation, monitoring and quality control, in addition to organizational and executive tasks. They can also carry out activities affecting any segment or field of complex rehabilitation in the political and administrative sectors (ministries, local governments, other offices).

<b>Academic discipline:</b>	Medical and Health Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Expert in Public Health
<b>Duration:</b>	3 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 90 credits.
<b>Aim of the program:</b>	The aim of the MSc program in public health is to train specialists capable of monitoring public health problems as well as planning, implementing, and evaluating possible solutions. The objective of the MSc course in public health is to equip graduates with knowledge and skills in <ul style="list-style-type: none"> <li>• monitoring the health status of population;</li> <li>• analysing the factors influencing the health status of populations;</li> <li>• exploring and prioritising health needs and demands;</li> <li>• drafting local, regional and national health policy aimed at solving public health concerns;</li> <li>• planning and organising services to promote health and prevent and treat diseases based on the needs of the target population;</li> <li>• implementing and managing health-promoting and disease-prevention tactics</li> <li>• analysing and evaluating the effectiveness of those services and interventions.</li> </ul>
<b>Language requirements:</b>	English language proficiency (CEFR level B2, assessed at the compulsory entrance interview)
<b>Entry requirements:</b>	high school certificate; relevant BSc degree; entrance interview
<b>Lecture, Seminar: Practice:</b>	62% 38%
<i>Main subjects typically include (this list is indicative and may change):</i>	

Year	Main subjects
1	Biostatistics, Epidemiology, Health Management, Health Informatics, Health Policy, Public Health in Developing Countries
2	Public Health in Developed Countries, Environmental Health, Health Promotion, Nutritional Health

<b>Internship, practice:</b>	Students should complete a 4-week field practice.
<b>Career prospects:</b>	Specialists who have completed their studies will have thorough knowledge in epidemiology, health promotion, health management and health policy.

# Social Work in Health Care, MSc



# Social Work and Social Economy, MA



<b>Academic discipline:</b>	Medical and Health Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Social Worker in Health Care
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the degree program is to train professionals who, equipped with knowledge and methods gained about the fields of health and social sciences, are able to tackle both health-related and social problems by performing professional, social and intersectoral cooperation. Graduates will become part of preventive activities as well as activities targeting acute problems and follow-up care.
<b>Language requirements:</b>	English language proficiency (CEFR level B2, assessed at the compulsory entrance interview)
<b>Entry requirements:</b>	high school certificate; relevant BSc degree; entrance interview
<b>Lecture, Seminar: Practice:</b>	36% 64%
<i>Main subjects typically include (this list is indicative and may change):</i>	

Year	Main subjects
1	Basics of Health Sciences, Health Management Studies, Health Psychology and Mental Hygiene, Health Policy, Sociology of Health, Clients and Methods of Social Work, Health and Pension Insurance Systems, Quality Assurance in Social and Health Systems, Applied Research Methodology, Health and Social Law
2	Rehabilitation, Deviance and Behaviour Disorders, Social Surroundings and Epidemiology, Fields and Methods of Health Social Work,

<b>Internship, practice:</b>	Students should complete 420 hours of health social work field practice.
<b>Career prospects:</b>	Graduates with health social work master's degree will find jobs in institutions and services which provide comprehensive health and social care using inter-professional and broadened competencies for the benefit of clients and patients. These include elderly homes, hospice care, and institutions for addicts, disabled people or psychiatric patients. They can also continue their studies in doctoral school.

<b>Academic discipline:</b>	Social Sciences
<b>Degree:</b>	Master of Art (MA)
<b>Qualification:</b>	Graduate Expert in Social Economy
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The purpose of the program is to train professionals who, with the acquired socio-political and managerial skills are able to manage, operate and develop institutions and services in the social economy. The graduates, who are familiar with the international professional and ethical principles of social assistance, are able to carry out tasks in international cooperation. With the appropriate organizational and organizational development skills, they perform tasks in the field of social services, which, by strengthening the local economy, promote the economic and social integration of disadvantaged social groups.
<b>Language requirements:</b>	English language proficiency (CEFR level B2, assessed at the compulsory entrance interview)
<b>Entry requirements:</b>	high school certificate; relevant BSc degree; entrance interview
<b>Lecture, Seminar: Practice:</b>	70% 30%
<i>Main subjects typically include (this list is indicative and may change):</i>	

Year	Main subjects
1	Business Economics, Competency Development I., European Economy and Social Policy, European Policies, Qualitative Research Methods, Social Work and Social Economy, Terminological Foreign Language I., Competency Development II., Corporate Law, Economy Studies, Marketing Studies, Non-profit Law, Organizational Studies, Terminological Foreign Language II.
2	Competency Development III., Intercultural Project Management, Project Management, Project Management and International Cooperation in European Union

<b>Internship, practice:</b>	the Master program includes an intensive international professional practice of 10 credits, which is compulsory to be performed at a foreign partner institution. The professional practice should be performed at institutions/organizations working in the field of social economy. Managerial, organizational tasks and tasks related to international cooperation should be fulfilled.
<b>Career prospects:</b>	Graduates from Master Degree Program are able to: <ul style="list-style-type: none"> <li>• manage and externally represent organizations in the social economy and public services,</li> <li>• plan and carry out management and managerial tasks</li> <li>• manage social institutions and services by building structures and processes</li> <li>• manage departments in areas such as quality assurance, controlling, HR, marketing and publicity, accounting</li> <li>• develop strategic plans</li> <li>• plan and implement projects</li> <li>• conduct personnel planning,</li> <li>• complete marketing, fundraising and planning PR tasks,</li> <li>• conduct social planning and evaluation,</li> <li>• carry out planning and managing programs suitable for the local economy and local society,</li> <li>• actively engage in planning and management tasks in international cooperation.</li> </ul>

# American Studies, MA



# English Studies, MA



<b>Academic discipline:</b>	Humanities
<b>Degree:</b>	Master of Arts (MA)
<b>Qualification:</b>	Philologist in American Studies
<b>Specializations:</b>	ethnic and multicultural studies, American literature
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The aim of the American Studies MA program is to train experts in the broad field of American studies comprising North American history and political culture, literary history, literary and cultural theory, visual and popular culture, history of arts, and ethnic studies. Students will become highly skilled users of the American English language and will also gain wide ranging knowledge of Canadian, Mexican, and Australian cultures and literatures.
<b>Language requirements:</b>	English language proficiency (TOEFL 587 /IELTS 7.0)
<b>Entry requirements:</b>	- Bachelor's degree, at least 38 completed credits in the field of English studies for admission (50 credits for graduation), - entrance examination in English (oral: in person or via electronic communication).
<b>Lecture, Seminar: Practice:</b>	18% 82%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	American Literary Culture, American History and Political Culture, American Culture Through Language, Literary and Cultural Theory, Introduction to the Profession of American Studies, American Popular Culture, North American History and Political Culture in the 20th century
2	Specialization courses, Thesis writing seminar

<b>Internship, practice:</b>	N/A
<b>Career prospects:</b>	Endowed with practical skills, theoretical insight and comprehensive knowledge in diverse fields of American studies, MA graduates may seek employment in areas requiring in-depth and up-to-date familiarity with culture and communication (oral and written): in education management and at various levels of government, in business, media, publishing, diplomacy, international relations, and tourism.

<b>Academic discipline:</b>	Humanities
<b>Degree:</b>	Master of Arts (MA)
<b>Qualification:</b>	Philologist in English Studies
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The goal of the English Studies program is the training of experts who, besides a full mastery of the English language, possess an extensive and in-depth knowledge of the language, culture, and history of English-speaking countries. Rather than being mere passive receivers of information, students who complete this MA program will be specialists fully capable of undertaking independent and original investigations in a wide range of topics. The English Studies MA program offers two complete (120-credit) curricula: the literary and cultural studies track and the linguistics track. The choice between these two must be made before application.
<b>Language requirements:</b>	English language proficiency (assessed at the compulsory entrance interview)
<b>Entry requirements:</b>	high school certificate, relevant BA or BSc degree, entrance interview
<b>Lecture, Seminar: Practice:</b>	25% 75%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Terms and Concepts in Literary and Linguistic Studies, Advanced Academic Writing, Trends in Linguistic, Literary and Cultural Studies, Modern British Society and Language, Advanced Research Methods
2	The subjects of the literary and cultural studies track or the linguistics track. Thesis

<b>Internship, practice:</b>	N/A
<b>Career prospects:</b>	As highly educated experts, our graduates occupy positions where their views reach and influence many people. Graduates are capable of applying and developing the skills acquired here in areas as diverse as international relations, tourism, the press and the media, business, language technology, publishing, municipal and national administration, diplomacy, and cultural life. They are also encouraged to continue their academic work in the PhD programs of the university.



# Applied Mathematics, MSc



# Biology, MSc



<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Applied Mathematician
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The main aim of the program is to provide the students with effective knowledge that they can successfully apply both in mathematical modeling and in the solution of problems arising in practice. Emphasis is put on the capability of working cooperatively in groups with experts in other fields (computer science, engineering, economics, etc.).
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in mathematics or information technology
<b>Lecture, Seminar: Practice:</b>	51% 49%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Introduction to Modern Algebra, Operation Research, Selected topics in geometry, Probability Theory, Basic Information, Graph Theory and Applications, Algorithms in Mathematics, Convex Optimization, Discrete Optimization, Stochastic Processes, Financial Mathematics, Introduction to Finance, Microeconomics
2	Applications of Ordinary Differential Equations, Partial Differential Equations, Multivariate Analysis, Econometrics, Financial Accounting, Game theory, Thesis

<b>Internship, practice:</b>	N/A
<b>Career prospects:</b>	Graduates find many different types of jobs, because the skills of problem solving and critical thinking developed in their programs make them versatile and adaptable. These jobs typically involve research and development, software development, or consulting.

<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Biologist
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The Biology, MSc course trains the researchers of the future in the fields of genetics, plant biology, ecology, evolutionary biology, and zoology. Students will learn specialised knowledge in biology, ecology; how to plan and carry out research projects, collect and analyse data, write up and publish results; and conduct their own small-scale research projects under the supervision of world-renowned experts in biology and ecology.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	BSc diploma in biological/life sciences or in a related discipline of natural sciences
<b>Lecture, Seminar: Practice:</b>	51% 49%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Biomathematics, Bioinformatics, Genetics, Biophysics, Structural Biology and Measurement, Biological Chemistry, Plant Biology, Zoology, Entomology, Ecology, Environmental Protection, Scientific Communication
2	Cell Biology, Molecular and Synthetic Biology, Regulatory Biology, Physiology and Immunology, Evolutionary Biology, Microbial Biotechnology, Thesis

<b>Internship, practice:</b>	Students should complete practice at a company or research institute.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in research laboratories, educational institutions, hospitals, clinics, environmental agencies, and pharmaceutical, food, agricultural, and chemical companies.

# Chemistry, MSc



# Environmental Sciences, MSc



<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Chemist
<b>Specializations:</b>	Synthetic Chemistry, Analytical Chemistry, Radiochemistry
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>The aim of this study program is the advanced training of chemists possessing theoretical and practical knowledge in chemistry as well as satisfactory basic knowledge in related fields of science (e. g. mathematics, physics, informatics, biology, and environmental protection). Degree holders will have the ability and practical skills</p> <ul style="list-style-type: none"> <li>- to solve chemical problems arising either in industrial or laboratory applications;</li> <li>- to actively join research and development projects in different fields of chemistry;</li> <li>- to undertake further studies in advanced chemistry and chemical research with a sufficient degree of autonomy.</li> </ul>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in chemistry or chemical engineering
<b>Lecture, Seminar: Practice:</b>	44% 56%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Physical Chemistry, Inorganic Chemistry, Organic Synthetic Methods, Heterocycles, Biochemistry, Instrumental Analysis, Introduction to Chemical Engineering
2	Spectroscopic Methods for Structure Investigation, Instrumental Analysis, Spectroscopic Methods for Structure Investigation, Advanced Chemical Technology, Thesis

| **Internship, practice:** | Students should complete a 6-week field practice. |
| **Career prospects:** | Graduates with a master's degree in chemistry will find themselves qualified for entry-level positions as clinical laboratory technologists, chemists, or materials scientists. |

<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Environmental Scientist
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>The MSc in Environmental Sciences, with specialization in ecology, environmental and nature conservation provides knowledge about the main topics regarding environmental sciences, focusing on terrestrial and aquatic environmental protection and ecological and nature conservational aspects.</p>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	A strong knowledge of biology and environmental sciences, and a BSc diploma in biology, environmental sciences, or in a related discipline in natural sciences.
<b>Lecture, Seminar: Practice:</b>	40% 60%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Biodiversity and its measuring, Landscape protection, Applied ecology, Computers in environmental science, Environmental physics, Soil ecology, Air quality protection practice, Soil conservation, Field study
2	Environmental Communication and management, Aquatic environment protection, Waste management, Biotechnology for environment protection, Thesis

| **Internship, practice:** | The students should attend a 6-week field practice. |
| **Career prospects:** | Graduated students can choose from a wide range of positions in industries and organizations, including environmental, energy and engineering consultancies, multinational companies (energy), local government, environmental bodies, research positions and teaching. |

# Geography, MSc



# Hydrobiology - Water Quality Management, MSc



<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Geographer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>The program provides specialized geography knowledge in the fields of environmental science, renewable energy, and geoinformatics. Students will learn:</p> <ul style="list-style-type: none"> <li>the most up-to-date software and hardware for spatial data collection, analysis, and visualization including both the statistical and cartography aspects;</li> <li>how to exploit the benefits of renewable energy (solar, geothermic and wind); knowledge of measuring devices, energy calculation methods;</li> <li>processes of the landscapes; environmental evaluation techniques; nature protection and policy; environmental quality assurance/control.</li> </ul>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	BSc diploma in earth sciences or in a related discipline in natural, human or information sciences.
<b>Lecture, Seminar: Practice:</b>	45% 55%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Novelties in the Methodology of Geosciences, Project Management and R+D Policy, Environmental Informatics, Environmental Application of GIS, Political Geography and Globalisation, Seminar on Political Geography and Globalisation, Landscape Analysis, Regional and Spatial Development in Practice, Environmental Systems – Environmental Geography, Regional and Spatial Development, Space and Society, Applied Geomorphology
2	Natural and Anthropogenic Hazards, Field Trip, Projectwork, Professional Practice, Thesis

<b>Internship, practice:</b>	Students should complete a 6-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in organizations such as government ministries, regional and local authorities, urban and rural planning consultancies, and private research institutes.

<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Hydrobiologist
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	The Water Management, MSc course develops knowledge and understanding in physical, chemical, and ecological aspects of water science in temperate, tropical, and semi-arid zones. It provides a foundation in basic processes in each key subject area, as well as in interactions throughout the hydrological cycle, the various hydrological processes and functions, and the impact these have on health.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Relevant bachelor's degree
<b>Lecture, Seminar: Practice:</b>	58% 42%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	General Hydrobiology, Mathematical Methods in Hydrobiology, Hydrology and Geography, Applied Hydrobiology, Water Chemistry, Running Water Ecology, Standing Water Ecology, Wetland Ecology, Water Management, Aquatic Toxicology, Paleo Hydrobiology
2	Water Quality Monitoring, European Water, Nature Conservation, Field practice, Thesis

<b>Internship, practice:</b>	Students should complete a 6-week field practice.
<b>Career prospects:</b>	Graduates can choose from a wide range of positions in organizations such as consultancy firms, governmental organizations, water research institutes, non-governmental organizations, or international development organizations.

# Molecular Biology, MSc



# Physics, MSc



<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Molecular Biologist
<b>Specialization:</b>	Biochemistry - Genomics
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>The MSc in molecular biology program aims to provide students with an in-depth knowledge of and practical skills in the field of molecular biology. This includes application of molecular biology techniques; a general knowledge of the molecular biology methods; ability to alter and modulate genes; a practical approach to scientific problems in multidisciplinary teams with an emphasis on medicine-related projects; understanding of the genomic data; planning and performing genetical modifications; setting up and testing recombinant expression systems for medicinal or industrial purposes; translation of laboratory results to clinical practice; obtaining, preserving, and evaluating genetic material; and the ability to test and establish personalized medicine-based approaches. The students can specialize in the fields of biochemistry and genomics.</p>
<b>Language requirements:</b>	English language proficiency (CEFR level B2 , assessed at the entrance interview)
<b>Entry requirements:</b>	BSc degree with completed studies in the fields of: mathematics (6 credits), informatics (6 credits), physics (4 credits), chemistry (20 credits) and biology (60 credits) + entrance interview.
<b>Lecture, Seminar: Practice:</b>	59% 41%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Biochemistry of Metabolism, Biophysics, Human Physiology, Molecular Genetics, Molecular Immunology, Medical Genome Biology, Radioisotope Techniques in Biomedicine, Methods of Molecular Biology, Cell and Organ Biochemistry, Cell Biology, Bioinformatics, Biostatistics, Plant Molecular Biology, Problem-solving Exercises in Molecular Biology, Physiology of Prokaryotes and Molecular Virology
2	Genomic Bioinformatics, Molecular Mechanism of diseases affecting large population, Signalling Pathways in the Cells, Enzymology, Post-translational Modification of Proteins

<b>Internship, practice:</b>	Students should carry out field practice at a research institute.
<b>Career prospects:</b>	Graduates may go on to a variety of subject-specific careers in research laboratories, educational institutions, hospitals, clinics, environmental agencies, and at pharmaceutical, food, agricultural, and chemical companies.

<b>Academic discipline:</b>	Natural Sciences
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Physicist
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>The objective of the program is to train physicist, who is able to realize physical principles in natural phenomena, to perform their experimental investigation according to scientific standards, and to obtain the theoretical understanding. The training enables her/him to develop and operate industrial, IT, and measuring systems related to physical laws and high technology processes. The student is able to continuously broaden her/his knowledge and has the aptitude for continuing her/his studies in the framework of doctoral studies.</p>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in physics
<b>Lecture, Seminar: Practice:</b>	60% 40% (practice and laboratory)

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Quantum mechanics, Statistical physics, Particle physics, Environmental Physics, Atomic and molecular physics, Condensed matter physics
2	Fundamental interactions, Atomic and molecular physics and quantum informatics, Complex systems, Nuclear physics, Quantum mechanical many-body systems

<b>Internship, practice:</b>	no internship or practice
<b>Career prospects:</b>	Academic research, Modelling, Research and development field, Data analysis in different fields, etc.

# Computer Science, MSc



# Computer Science Engineering, MSc



<b>Academic discipline:</b>	Computer Science and Information Technology
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Computer Scientist
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>Computer Science, MSc students are able to use and develop the theoretical knowledge acquired in BSc courses at a more advanced level. Using this knowledge as a foundation in the long run, they can work individually or in a team. Their responsibilities include the development, creation, implementation, introduction, operation, and service of IT systems. They also possess skills that enable them to cooperate and create models needed for solving IT tasks related to their specialization. Successful students possess appropriate knowledge enabling them to use their skills in an innovative way in order to carry out research and development tasks in fields such as:</p> <ul style="list-style-type: none"> <li>• formatting complex IT problems, examining the theoretical and practical background for their solution;</li> <li>• completing tasks connected with planning, developing, operating and managing related to the operation of complex software systems;</li> <li>• assessing the business, marketing and innovative values of planned or implemented IT systems, validating software products;</li> <li>• planning and implementing specific tasks in quality management.</li> </ul>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Relevant bachelor's degree in information technology
<b>Lecture, Seminar: Practice:</b>	50% 50%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Machine Learning Basics, Algorithms, Cryptography, Optimization Algorithms, Information Systems, Data Mining, Computer Graphics, Operation Research, Advanced Inference Methods, Logical Algorithms, Advanced Software Architecture Patterns, Advanced XML Technologies, NoSQL Databases, Sensor Networks and the Internet of Things, Parallel and High Performance Computing
2	Geometric Modelling, Coding Theory, Theory of Neural Networks, Models of Computation, Declarative Programming, Visualization and Visual Analytics, Data Science lab, Advanced Machine Learning, Text and Web Mining, Information Systems in Practice, Advanced Software Engineering, Thesis

<b>Internship, practice:</b>	Students should complete a 6-week internship either at the university working on research projects or at a multinational or local company.
<b>Career prospects:</b>	Computer Science, MSc graduates have many more opportunities than computer science BSc graduates in the labor market since they are capable of initiative cooperation with professionals from other fields of science in project or team work. They can also interpret, plan, manage, and control processes in their specialization at a management level. Graduates who are interested in scientific research work can continue their studies in the doctoral school of the faculty, where they can choose a PhD course and acquire academic qualifications.

<b>Academic discipline:</b>	Computer Science and Information Technology
<b>Degree:</b>	Master of Science (MSc)
<b>Qualification:</b>	Computer Science Engineer
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 120 credits.
<b>Aim of the program:</b>	<p>Computer Science Engineering, MSc students have the opportunity to broaden the knowledge that they have acquired over the course of a BSc program, to get acquainted with the modern trends of informatics and to deepen this knowledge. Besides theoretical education, a great emphasis is placed on practical training which is done in IT laboratories. Moreover, students have the opportunity to carry out individual activities which are coordinated and supervised by well-qualified consultants, and they can take part in research projects related to their chosen field which can serve as a basis for their master's thesis.</p>
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Relevant bachelor's degree in information technology
<b>Lecture, Seminar: Practice:</b>	50% 50%

*Main subjects typically include (this list is indicative and may change):*

Year	Main subjects
1	Introduction New Network Communication Technologies, Mathematics and Information Theory for Engineers, System Security Techniques and Solutions, Computer Science in Engineering Applications, Introduction to Economics and Law, Management and Organizational Knowledge, Performance Evaluation of Info Communication Networks, System Architecture, Logic Design Using Hardware Description Language, Parallel Image Processing and Pattern Recognition, Internet of Things Systems and Technologies
2	Advanced Switching and Routing 1 (CCNP1), Intelligent Sensor Networks, Multimedia Networks, Reconfigurable Embedded Systems, Data Mining for Engineers, Cloud Service Architectures and Services, Advanced Switching and Routing 2 (CCNP2), Hardware-Software Co-design, Microcontroller Applications Technology, Thesis

<b>Internship, practice:</b>	Students should complete a 6-week internship either at the university working on research projects or at a multinational or local company.
<b>Career prospects:</b>	Computer Science Engineer, MSc graduates can easily find positions in the labor market as senior system designers and developers, system analysts, project managers, IT project managers, IT managers, or network designers. On the basis of their BSc and MSc studies, our students have the opportunity to pass international certification exams such as Cisco with the help of which they greatly increase the chances of being successful applicants in the national and international labor market. Ones who are interested in the science of informatics can be admitted to the doctoral school of the faculty of informatics and, by fulfilling the requirements, can receive their PhD degree.

# European and International Business Law - LL.M.



<b>Academic discipline:</b>	Legal Science
<b>Degree:</b>	Master of Arts (MA)
<b>Qualification:</b>	European and International Business Lawyer - LL.M.
<b>Duration:</b>	2 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 60 credits.
<b>Aim of the program:</b>	The program provides a modern, business-focused law degree with a special European character, focusing on the tendencies of the European and international markets. The program gives students the opportunity to boost their legal expertise to a more advanced level, as they learn how European and international law make a remarkable impact on business life, and explore both legislative and judicial elements of European business law, trade law, and corporate law. The LLM is practice-oriented and develops skills needed to succeed in an international career path and at all workplaces requiring cross-cultural understanding, flexibility, and contemporary practical legal knowledge.
<b>Language requirements:</b>	English language proficiency (TOEFL 547 /IELTS 6.0 /oral examination)
<b>Entry requirements:</b>	Bachelor's degree in law
<b>Lecture, Seminar: Practice:</b>	40% 60%

*Main subjects typically include (this list is indicative and may change):*

## Main subjects

EU Internal Market Law, Institutions of the European Union, European Criminal Law, European Consumer Protection Law, European Company Law, Harmonization of Laws in the European Union, Principles of Public International Law, Introduction to International Business Law, European and International Contract Law, International Commercial Arbitration, Private International Law, Case Law of the European Court of Justice, International Sale of Goods, European Labor and Social Law, EU Competition Law, Public Management, International and European Intellectual Property Law, Thesis

**Internship, practice:**

N/A

**Career prospects:**

Graduates can choose from a wide range of positions at organizations such as international departments of law firms, international businesses, international bureaus of government services, or other international organizations.

# Classical Musical Instrumental Performance, MA Opera singing /Oratorio and Art Song Singing, MA Choral Conducting, MA



<b>Degree:</b>	Master of Arts (MA)
<b>Qualification:</b>	Pianist/Organist/Guitarist/Flautist/Oboist/Clarinetist/Horn Player/Trumpeter/Prcussionist/ Opera Singer/ Oratorio and Song Performer/Choir Conductor
<b>Duration:</b>	4 semesters
<b>Credits obtained:</b>	The master's degree requires the completion of 360 credits.
<b>Aim of the program:</b>	To educate musicians who - with performing skills, theoretical knowledge, and highly developed musical abilities - enrich and spread Hungarian and European music culture. They can enrich the repertoire of musical knowledge with their sophisticated music taste and are able to work in professional performance ensembles or as a soloist.
<b>Entry requirements:</b>	- BA degree in suitable instrumental/vocal area - English language proficiency - entrance examination (more information: <a href="http://www.music.unideb.hu">www.music.unideb.hu</a> )

*Main subjects typically include (this list is indicative and may change):*

## Subjects

Instrumental / Vocal / Conducting Technique and Performance, History of Music, Analysis, Repertoire Studies, Orchestra/Choir, Piano, Chamber Music, Stage practice (for singers)

## Career prospects:

Graduates are able to work as a soloist or in professional performance ensembles. With their high standard of knowledge they can continue their studies in DLA doctoral program.



## Application and Admission

The University of Debrecen has an online application system, where you can submit your application.

The following documents need to be uploaded during the application procedure:

- Valid, completely filled out **application form**
- **Certificate of former education**
- Passport or National ID
- Short Resume/CV
- **Medical Certificate**
- **Bank receipt** certifying the transfer of the application fee of 150 USD (non-refundable) to the university bank account.

Special requirements for applications to the non-medical graduate programs of the University of Debrecen:

- Detailed CV
- Bachelor degree
- Detailed transcript and descriptions of courses taken during undergraduate studies

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Please visit our website for more information about the application and admission procedure, special requirements and additional documents for transfer students:  
[edu.unideb.hu/p/application-and-admission](http://edu.unideb.hu/p/application-and-admission)

You may also contact our local representatives, who can help you in the application process:  
[edu.unideb.hu/p/representatives](http://edu.unideb.hu/p/representatives)



# Fees

Application fee: 150 USD

Entrance exam fee: 350 USD

Tuition fees:

For current tuition fees, please visit the program's website or scan the QR code.

<https://www.edu.unideb.hu/p/tuition-fee-application-entrance-fee>

The costs of health insurance, medical check-up and student card are included in the tuition fee.



# Cost of living

A list of living expenses in Debrecen (approximate values):

- Books & supplies from 60 USD
- Dormitory from 140 USD/month
- Private accommodation with utilities from 340 USD/month
- Food from 200 USD/month

For additional living costs you may check our website:

<https://www.edu.unideb.hu/p/cost-of-living>



# Dates and deadlines to remember

## Application Deadlines

### *for September admission*

PhD programs	15 May
Medical and health science programs	31 May
Non-medical programs	15 June

### *for January/February admission*

Non-medical programs and PhD programs	15 November
Basic Medicine Course II	1 November

## Hungary and the city of Debrecen

### Country info:

Hungary is a European Union member country located in Central Europe. The country shares borders with Austria, Slovakia, Ukraine, Romania, Serbia, Croatia and Slovenia. Its population is ca. 10 million.

### City info:

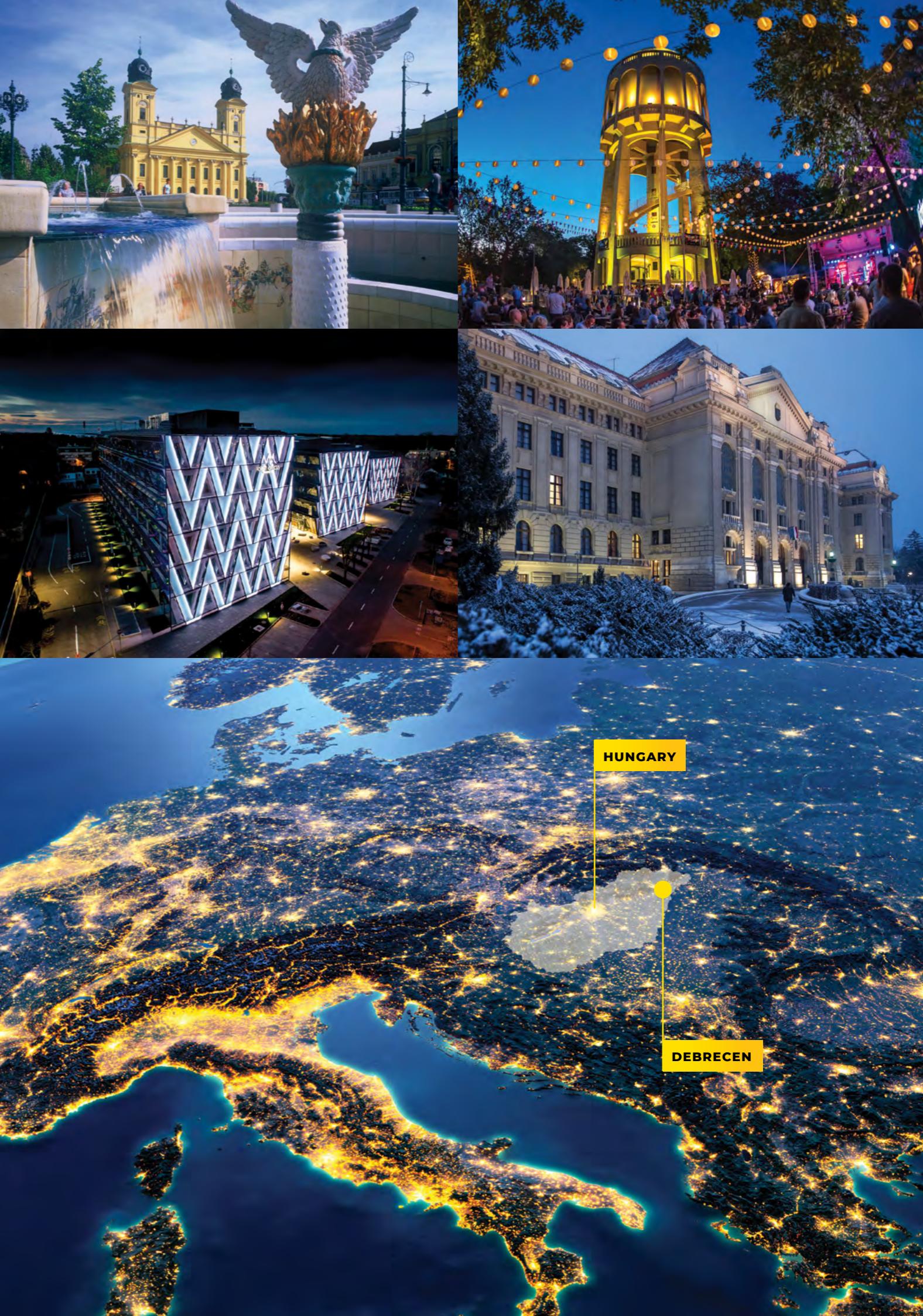
With 204,000 inhabitants, Debrecen is the second-largest city in Hungary. Debrecen has a small-town feel, with all a big city has to offer. A variety of cozy restaurants with local and international cuisine, cafés, wine bars, and ruin pubs add to the "taste" of life in Debrecen.

### City life:

Debrecen offers year-round high-quality programs including festivals, concerts, and all sorts of sports events.

Main attractions and places to visit:

- Great Forest of Debrecen and Lake Békás
- Aquaticum Spa and Wellness Centre w/ Mediterranean Aqua Park
- Kölcsény Convention Center – the largest conference center of Eastern Hungary (capacity: 1,150 people)
- MODEM (Modern and Contemporary Arts Centre)
- Debrecen Zoo
- Debrecen Ice Rink
- Debrecen Swimming Pool complex
- Déri Museum





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